## CT-999-0113 LEDYARD, CT

# Optasite

#### DEVELOPMENT & MANAGEMENT PLANS - NOT FOR CONSTRUCTION

### PROJECT SUMMARY

SITE NUMBER: CT-999-0113

SITE NAME: LEDYARD

SITE ADDRESS: 12 ORCHARD DRIVE LEDYARD, CT 06335

PROPERTY OWNER: RICHARD & DIANE HOLMBERG 4 ORCHARD DRIVE

GALES FERRY, CT 06335

OPTASITE TOWERS LLC 1 RESEARCH DRIVE, SUITE 200C

WESTBOROUGH, MA 01581

CONTACT: KEITH COPPINS

APPLICANT:

(508) 471-1385

41° 28' 05.80"N 2C COORDINATES: 72° 03' 16.10"W

HORIZONTAL DATUM: NAD 83

GROUND ELEVATION:

DEED REFERENCE: BOOK 329, PAGE 1023

TAX M-B-L: 24-1790-12

CURRENT ZONING: R-40

ENGINEER: CLOUGH HARBOUR & ASSOCIATES LLP 2139 SILAS DEANE HIGHWAY

SUITE 212

ROCKY HILL, CT 06067

PAUL LUSITANI

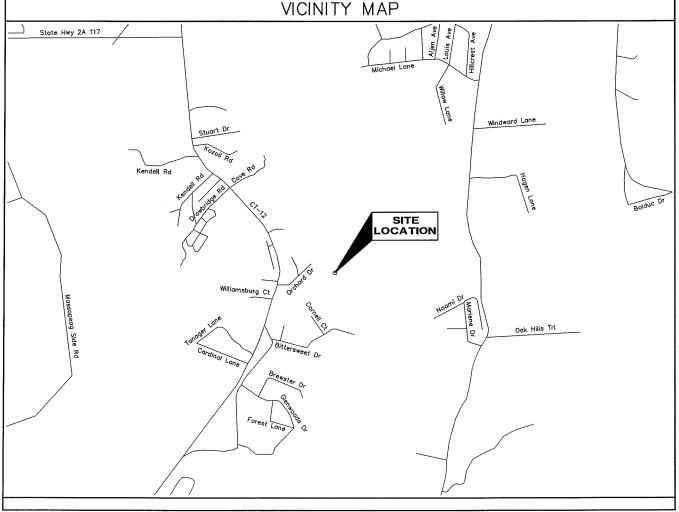
(860) 257-4557

#### DRIVING DIRECTIONS

FROM I-395 SOUTH: -TAKE EXIT 79A TOWARD CT-2A EAST -TURN RIGHT ON CT-12 -TURN LEFT ON ORCHARD DRIVE

#### PROJECT DESCRIPTION

THIS PROJECT PROPOSES A 50' × 50' GRAVEL COMPOUND SURROUNDED BY AN 8 FT HIGH FENCE. LOCATED INSIDE THE COMPOUND WILL BE A PROPOSED 150 FOOT HIGH MONOPOLE WHICH WILL HAVE 9 ANTENNAS LOCATED AT AN ELEVATION OF 147 FEET ON THE TOWER. TELECOMMUNICATIONS EQUIPMENT WITH ASSOCIATED ELECTRICAL AND TELEPHONE SERVICES WILL BE LOCATED IN THE COMPOUND. MAINTENANCE VISITS WILL CONSIST OF ONE VISIT PER MONTH BY A TECHNICIAN IN A PICKUP TRUCK.



**MARCH 2007** 

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#### DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME



SAVE BIG, CALL BEFORE YOU DIG. 1-800-922-4455



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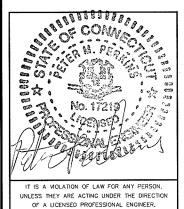


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CHA PROJECT NO:

15363 - 1011 - 1601

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Γ.	03/28/07	SUBMITTED FOR	
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CT-999-0113 SITE NAME: **LEDYARD** SITE ADDRESS: 12 ORCHARD DRIVE LEDYARD, CT 06335 NEW LONDON COUNTY

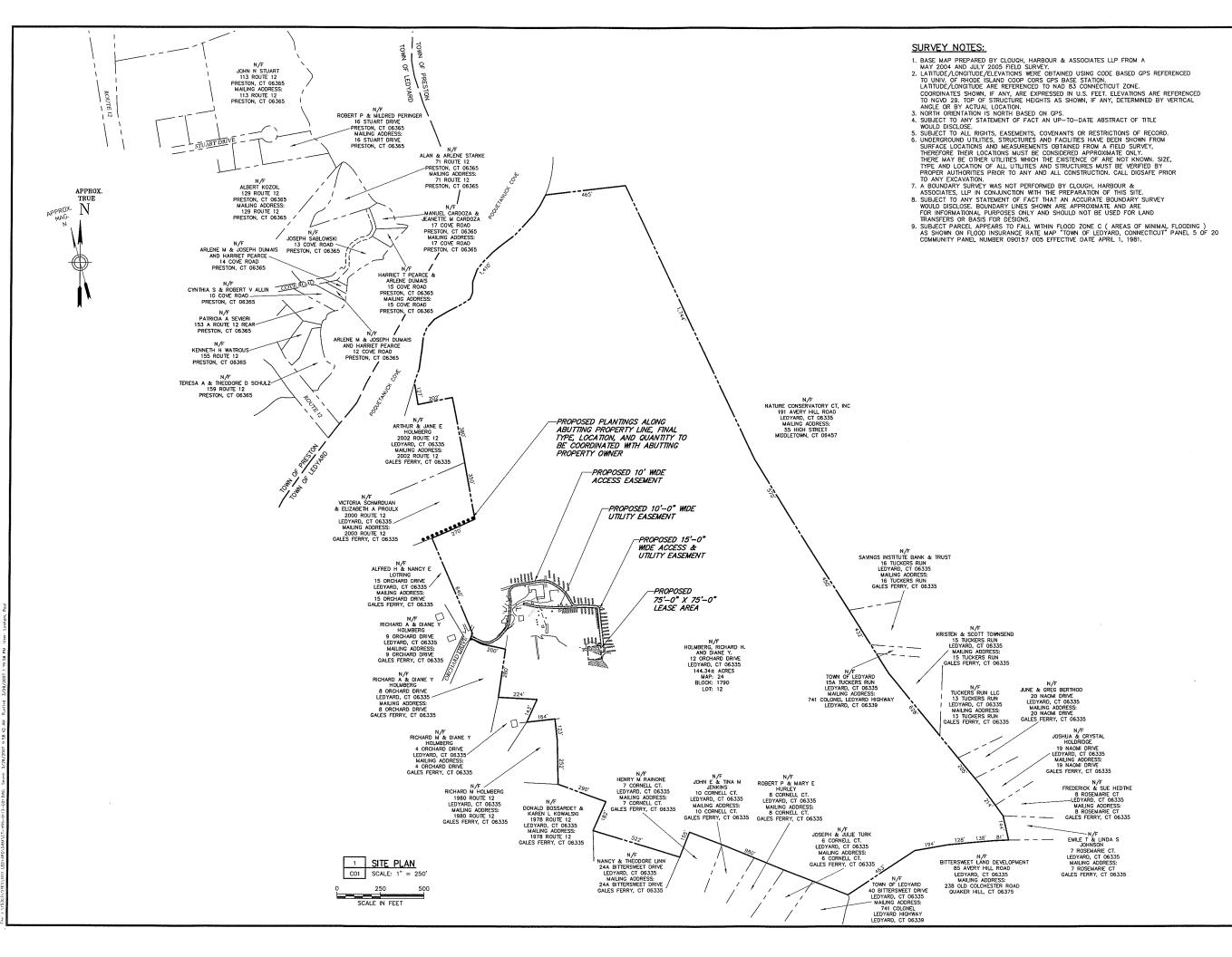
TO ALTER THIS DOCUMENT

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TITLE SHEET

SHEET NUMBER

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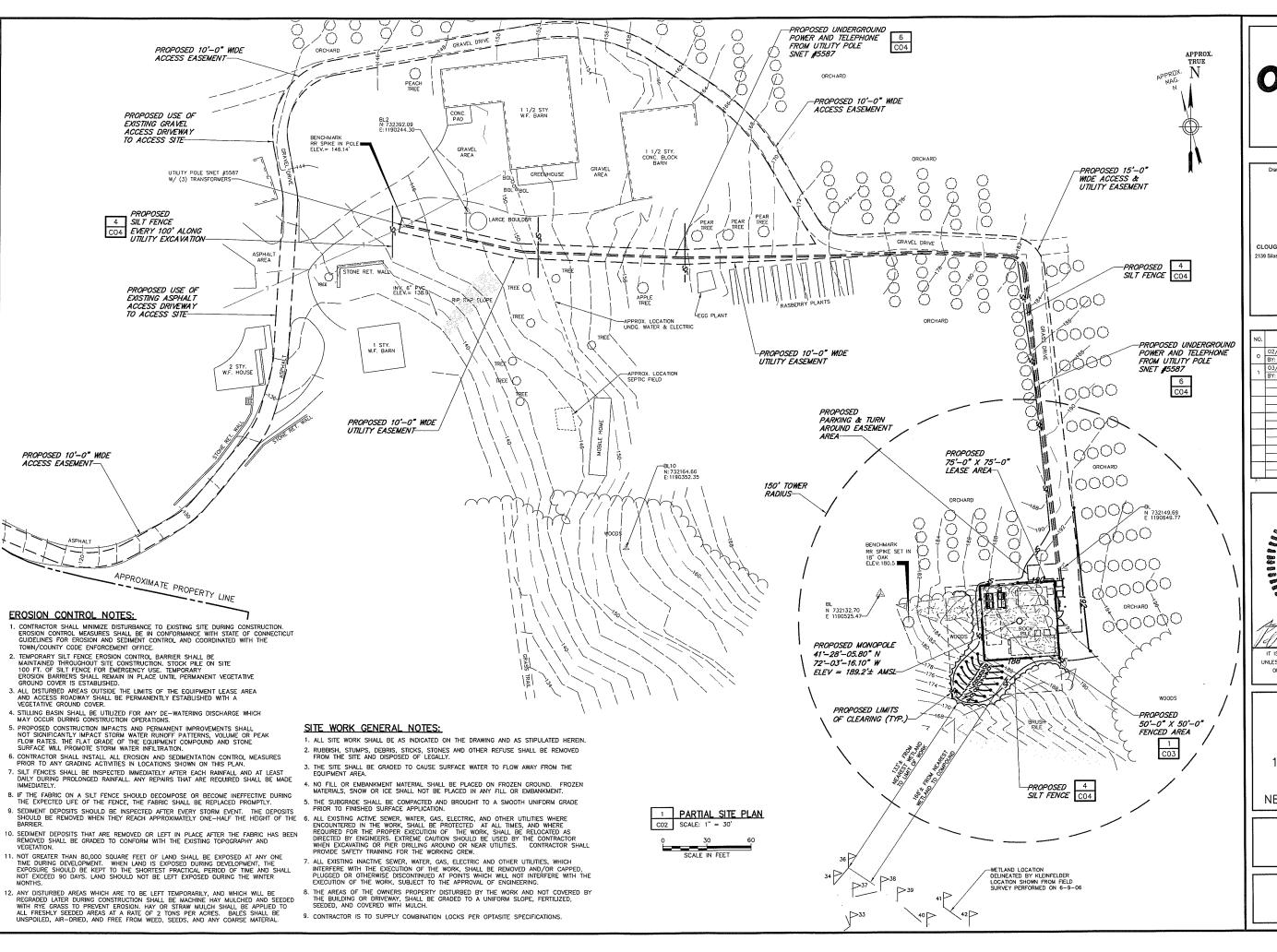
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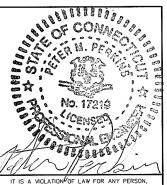


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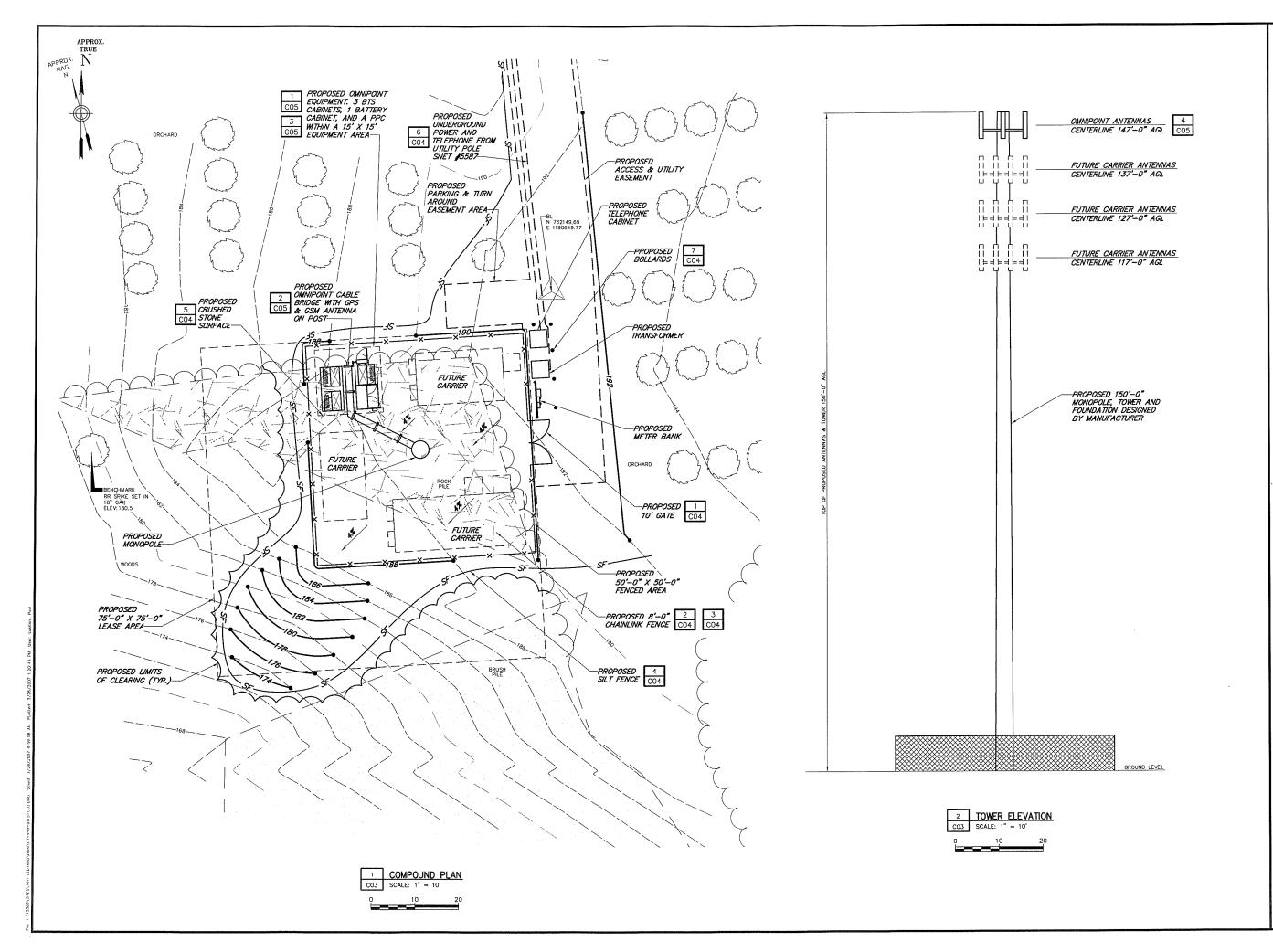


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> SHEET TITLE PARTIAL SITE PLAN

SHEET NUMBER





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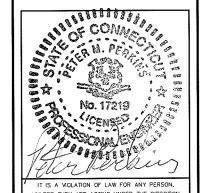


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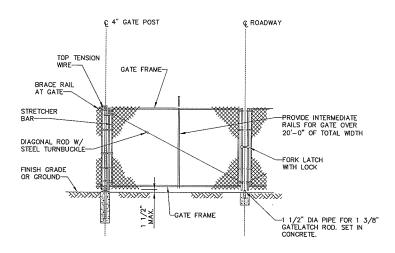
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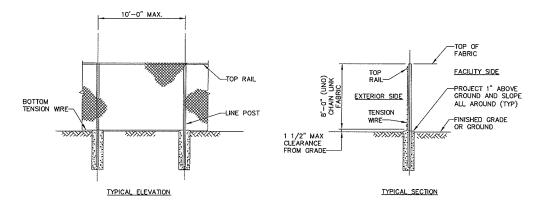
COMPOUND &

TOWER ELEVATION

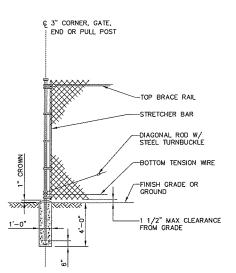
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1 WOVEN WIRE SWING GATE, DOUBLE DETAIL



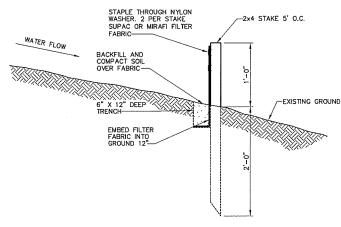
3 WOVEN WRE FENCE CO4 NO SCALE



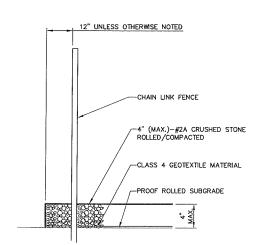
2 WOVEN WRE CORNER, GATE, END OR PULL POST CO4 NO SCALE

- THE GOETEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES.

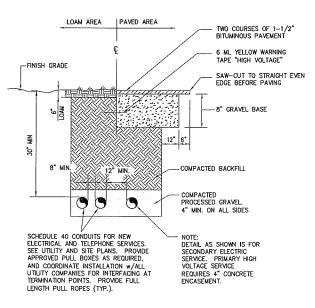
   THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 12" INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
- WOVEN WIRE FENCES SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.
- 4. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION, AND BOTTOM.
- 5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN ONE ANOTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
- 6. FENCE POSTS SHALL BE A MINIMUM OF 36" CONTROL OF THE PROPERTY OF THE PROPERTY OF THE CROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.
- 7. MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BULGES IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.



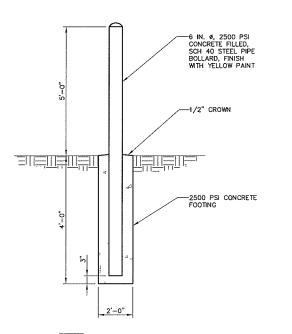
4 SILT FENCE DETAIL



5 SITE AREA SURFACING
CO4 NO SCALE



6 BURIED CONDUIT DETAIL CO4 NO SCALE



7 BOLLARD DETAIL CO4 NO SCALE

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OPTASITE TOWERS LLC

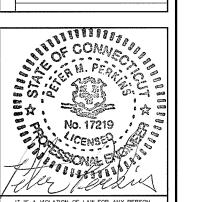
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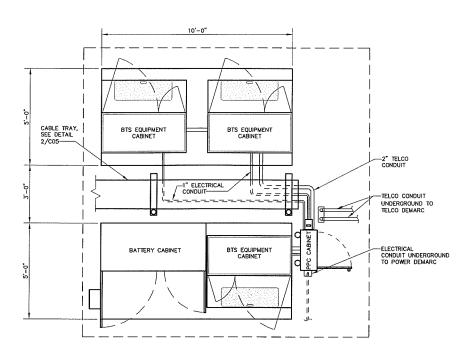
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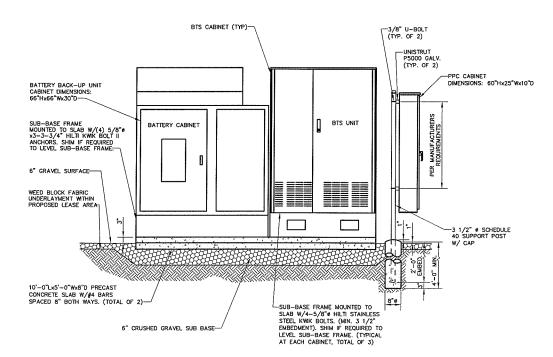
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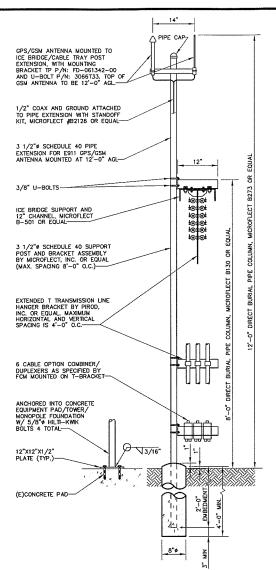


1 EQUIPMENT SLAB LAYOUT CO5 NO SCALE

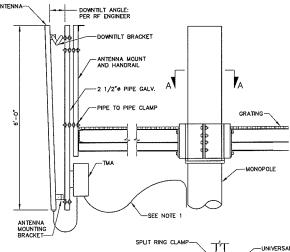


NOTE: PROPOSED ICE BRIDGE NOT SHOWN FOR CLARITY.

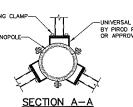
3 EQUIPMENT ELEVATION CO5 NO SCALE



2 PROFILE AT CABLE BRIDGE CO5 NO SCALE



- 1. SECURE CABLES TO GRATING WITH THE WRAPS AT 3'-0" O.C.
- 2. MONOPOLE WIRELESS ANTENNA LOW PROFILE PLATFORM MANUFACTURED BY PIROD/MICROFLECT WRELESS INFRASTRUCTURE PRODUCTS P/N 852207 (OR APPROVED EQUAL). NOTE: MOUNTING PIPES ARE INCLUDED WITH PLATFORM.



4 ANTENNA MOUNTING DETAIL

CO5 NO SCALE

#### STRUCTURAL NOTES:

- 1. DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS. ANSI/ASCET. EIA/TIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER
- DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
- 4. STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 STRUCTURAL STEEL UNLESS OTHERWISE NOTED
- 5. STEEL PIPE SHALL CONFORM TO ASTM ASOO "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE A, OR ASTM AS3 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B, PIPE SIZES INDICATED ARE NOMINAL ACTUAL OUTSIDE DIAMETER IS LARGER.
- 6. STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE)AND CONFORM TO ASTM A325 "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 5/8" DIA UNLESS OTHERWISE NOTED.
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-OIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- 8. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
- 9. FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZING REPAIR PAINT COMPLINING WITH RECUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZING BY WEIGHT, ZIRP BY OUNCAIN GALVANIZING, GALVA BRIGHT PREMIUM BY GROWN OF GALL HICKNESS OF APPUED GALVANIZING REPAIR PAINT SHALL BE NOT NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM ALZ3 OR A155 SA APPUELGABLE.
- 10. CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING, ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES", ALL WELDING SHALL BE DONE USING EZOXX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND DIL WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION". 9TH EDITION.
- INCORRECTLY FABRICATED, DAMAGED OR OTHERMISE MISTITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL
  BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL
  REQUIRE CONSTRUCTION MANAGER APPROVAL.
- 12. UNISTRUTS SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP, WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1 5/8'x1 5/8'x12GA, UNILESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
- 13. EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF 1/2" DIAMETER STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS, AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILT-HIT HY-20 AND OR HY-150 SYSYTEMS (AS SPECIFIED ON DWG.) OR ENGINEERS APPROVED EQUAL WITH 4-1/4" MIN. EMEDIMENT DEPTH, UNLESS NOTED OTHERWISE.
- 14. FXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWIK BOLT II OR APPROVED EQUAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE THREE AND ONE HALF (3 1/2) INCHES.
- 15. GRAVEL SUB-BASE AND CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL.
- 16 CONCRETE FOR FENCE AND ICE BRIDGE SUPPORT SHALL BE 3000 PSI AIR ENTRAINED (4%-6%) NORMAL WEIGHT CONCRETE.
- 17. ALL CAST IN PLACE CONCRETE SHALL BE MIXED AND PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318 AND ACI 301.
- 18. THE FOLLOWING MINIMUM CONCRETE COVER OVER REINFORCING STEEL SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:

ALL EXPOSED EDGES SHALL BE PROVIDED WITH A 3/4"x3/4" CHAMFER UNLESS OTHERWISE NOTED.

19. LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.



RESEARCH DRIVE, SUITE 200C WESTBOROUGH, MA 01581

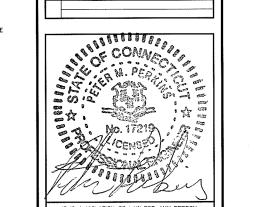
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SHEET TITLE **OMNIPOINT** EQUIPMENT DETAILS

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